# Cytometer Performance Report

| | | | |
|---|---|---|---|
| Cytometer: | FACSCantoII | User: | Administrator |
| Cytometer Name: | FACSCantoII | Institution: | N/A |
| Serial Number: | V33896201821 | Software: | BD FACSDiva 8.0.2 |
| Input Device: | Carousel | Date: | 12/05/2019 10:20 AM |
| Tube Loaded Manually: | Yes | Cytometer Baseline: | 10/08/2019 01:46 PM |
| Cytometer Configuration: | Euroflow 3-laser, 8-color (4-2-2) | P/F: | Pass |

## Setup Beads

| | | | |
|---|---|---|---|
| Bead Product: | CST Setup Beads | Part #: | 910859 |
| Lot ID: | 80996 | Expiration Date: | 04/30/2020 |
| Bead Lot Information: | Available | | |

## Detector Settings

| Laser | Detector | Parameter | Target Value | Actual Target Value | % Difference Target Value | Bright Bead % Robust CV | Mid Bead Median Channel | Mid Bead % Robust CV |
|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 125000 | 125081 | 0 | 2.27 | 125141 | 2.26 |
| Blue | F | SSC | 125000 | 124273 | -1 | 1.52 | 125044 | 1.51 |
| Blue | E | FITC | 16433 | 16070 | -3 | 2.83 | 350 | 19.73 |
| Blue | D | PE | 27595 | 27214 | -2 | 2.13 | 592 | 15.05 |
| Blue | B | PerCP-Cy5-5 | 43183 | 42832 | -1 | 3.72 | 1155 | 20.24 |
| Blue | A | PE-Cy7 | 31943 | 32206 | 0 | 6.16 | 619 | 40.30 |
| Red | C | APC | 42819 | 42340 | -2 | 2.40 | 1498 | 12.29 |
| Red | A | APC-Cy7 | 31261 | 30343 | -3 | 2.28 | 815 | 11.94 |
| Violet | B | V450 | 6527 | 6265 | -5 | 4.54 | 351 | 13.32 |
| Violet | A | V500 | 24533 | 23850 | -3 | 4.39 | 555 | 10.61 |

## Detector Settings (Continued)

| Laser | Detector | Parameter | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | Δ PMTV | Qr | Br | P/F |
|---|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 17893 | 12.24 | 613 | 13 | N/A | N/A | Pass |
| Blue | F | SSC | 56600 | 1.20 | 554 | 6 | N/A | N/A | Pass |
| Blue | E | FITC | 64 | 62.06 | 541 | 2 | 0.0206 | 110 | Pass |
| Blue | D | PE | 124 | 50.02 | 538 | 4 | 0.1532 | 256 | Pass |
| Blue | B | PerCP-Cy5-5 | 213 | 49.07 | 650 | 8 | 0.0091 | 43 | Pass |
| Blue | A | PE-Cy7 | 112 | 102.79 | 698 | 9 | 0.0112 | 21 | Pass |
| Red | C | APC | 356 | 25.78 | 581 | -2 | 0.0237 | 159 | Pass |
| Red | A | APC-Cy7 | 181 | 28.29 | 560 | -3 | 0.0054 | 840 | Pass |
| Violet | B | V450 | 55 | 60.40 | 450 | -5 | 0.0544 | 2406 | Pass |
| Violet | A | V500 | 83 | 34.35 | 462 | -5 | 0.0236 | 925 | Pass |

## Specifications

| | |
|---|---|
| PMTV Delta from baseline: | 50 (BD) |
| Violet Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |
| Blue Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |
| Red Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |

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## Laser Settings

| Laser | Power (mW) | Power Spec. (mW) | Current (mA) | Current Guidelines (mA) | Delay (Trigger on FSC) | Delay (Trigger on Fluorescence) | Area Scaling Factor |
|---|---|---|---|---|---|---|---|
| Violet | 59.55 | 47.98 - 71.98 | N/A | N/A | -32.26 | -31.84 | 1.02 |
| Blue | 20.35 | 16.27 - 24.41 | 1.27 | 0.99 - 1.49 | 0.00 | 0.00 | 1.50 |
| Red | 15.60 | 13.60 - 20.40 | N/A | N/A | 29.48 | 29.88 | 1.19 |

Window Extension: 7.00
FSC Area Scaling Factor: 0.92

## Threshold

Threshold (FSC): 9514

## Fluidics

FACSFlow Pressure: 3.90 Sample Pressure: 3.60
Spec.: 3.80 - 4.00

Comments